

## ABSTRACT

An optical multilayer film comprising a hard coat layer and a low refractive index layer comprising aerogel, which layers are laminated, in this order, directly or with another intervening layer on one surface of a base film comprising a transparent resin, wherein the refractive index  $n_H$  of the hard coat layer and the refractive index  $n_L$  of the low refractive index layer satisfy the following three formulae (1), (2) and (3),

Formula (1) :  $n_L \leq 1.37$

Formula (2) :  $n_H \geq 1.53$

Formula (3) :  $(n_H)^{1/2} - 0.2 < n_L < (n_H)^{1/2} + 0.2.$